INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP03/07503

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl[7] C21D8/10, C22C38/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl[7] C21D8/00-8/10, 9/08, C22C38/00-38/60

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Toroku Jitsuyo Shinan Koho	1994-2003
Kokai Jitsuyo Shinan Koho	1971-2003	Jitsuyo Shinan Toroku Koho	1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2002-129283 A (Sumitomo Metal Industries, Ltd.), 09 May, 2002 (09.05.02), Claims; column 1, lines 19 to 22; column 5, lines 42 to 49; column 8, 25 to 32; table 1; kind of steel H (Family: none)	1-16
X	JP 64-25916 A (NIPPON STEEL CORP.), 27 January, 1989 (27.01.89), Claims; page 1, lower right column, lines 3 to 8; page 3, upper left column, line 15 to upper right column, line 1 (Family: none)	1-16

[X] Further documents are listed in the continuation of Box C. [ ] See patent family annex.

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier document but published on or after the international filing date
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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
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Date of the actual completion of the international search 15 July, 2003 (15.07.03)	Date of mailing of the international search report 05 August, 2003 (05.08.03)
Name and mailing address of the ISA/ Japanese Patent Office Facsimile No.	Authorized officer Telephone No.

Form PCT/ISA/210 (second sheet) (July 1998)

EV 321842185 US

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PCT/JP03/07503

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 61-279623 A (NIPPON STEEL CORP.), 10 December, 1986 (10.12.86), Claims (Family: none)	1-16
A	GB 2155950 A (NIPPON STEEL CORP.), 02 October, 1985 (02.10.85), Claims & DE 3507124 A & FR 2560608 A & JP 60-187663 A Claims & CA 1239568 A	1-16

<The subject of seach>

Claims 1 and 2, and, claims 3 and 4 include all the oil well steel pipes having desired properties of "the ratio a/b of the crushing pressure after pipe expansion to the crushing pressure before pipe expansion is the range of 0.85 to less than 1" and "the ratio c/d of the crushing pressure after pipe expansion and aging to the crushing pressure before pipe expansion is the range of 1 to 1.2", respectively. However, only an oil well steel pipe is disclosed in the meaning of PCT Article 5, which is produced by a method comprising subjecting a steel piece having a specific chemical composition, wherein the contents of C, Mn, P, S, Nb, Ti, Al and N are values of specific ranges, respectively, and the balance is constituted by iron and inevitable impurities, to a hot rolling, and winding up the resulting steel belt at a temperature of 300°C or lower, or comprising heating a steel piece having a specific chemical composition, wherein the contents of C, Mn, P, S, Nb, Ti, Al and N are values of specific ranges, respectively, and the balance is constituted by iron and inevitable impurities, to a temperature from A_{c3} [°C] to 1150°C, and then cooling the resultant steel piece at a rate of 5 to 50°C/sec for the range of 400 to 800°C. Therefore, claims 1 and 2, and, claims 3 and 4 lack the support in the meaning of PCT Article 6.

Accordingly, the search for claims 1 to 4 and claims 5 to 10 defined by referring to claims 1 to 4 has been carried out for the range supported by and disclosed in the specification, that is, for an oil well steel pipe produced by a method comprising subjecting a steel piece having a specific chemical composition, wherein the contents of C, Mn, P, S, Nb, Ti, Al and N are values of specific ranges, respectively, and the balance is constituted by iron and inevitable impurities, to a hot rolling, and winding up the resulting steel belt at a temperature of 300°C or lower, and an oil well steel pipe produced by a method comprising heating a steel piece having a specific chemical composition, wherein the contents of C, Mn, P, S, Nb, Ti, Al and N are values of specific ranges, respectively, and the balance is constituted by iron and inevitable impurities, to a temperature from A_{c3} [°C] to 1150°C, and then cooling the resultant steel piece at a rate of 5 to 50°C/sec for the range of 400 to 800°C.